SnowEx19: Mission Objectives

THP16 Science Plan *Mission Critical* Priorities

- L-band InSAR of accumulation in dry snow
- L-band InSAR in transition from dry to wet
- Ku-band SAR in dry snow
- Ka-band InSAR to evaluate penetration in dry snow
- Coincident LiDAR for cal/val
- Integrated Modeling and Data Assimilation

THP16 Science Plan Crucial Priorities

- Thermal IR during dry snow
- Passive microwave in dry snow
- Spectral imaging in dry and wet snow

CONCLUSION: Government Shutdown placed 7/9 mission objectives at risk. *Delaying campaign to fall 2019 mitigated these risks to success.*

SnowEx19 Plan B is underway!

- Airborne contracts, equipment, observers onboarded ASAP improve resiliency to possible future shutdown
- Majority of funding will still be spent in FY19
- *Mid-March 2019:* Training at all 13 field locations
- Mid-April 2019: Shakedown overflight, 13 field teams (~70 observers)
- November 1, 2019-May 1, 2020: biweekly UAVSAR
- Dec 1, 2019-May 1, 2020: monthly ASO in CA/CO
- Mid-January 2020: SWESARR / Thermal IR campaign
- Jan-Feb 2020: 3 GLISTIN flights
- UAVSAR, GLISTIN and SWESARR/Thermal IR have confirmed availability.
 ASO and CRREL plan to continue LiDAR activity in 2019-2020

Additional possible ground-based calibration/validation in support of SnowEx19

- Additional in-situ installations
- Additional field experiments
- Coordination with funded projects/efforts
- Coordination with education/outreach